

AMENDMENTS TO THE SPECIFICATION:

Please amend the indicated paragraphs of the specification in accordance with the amendments indicated below.

Please amend the paragraph commencing at page 1 line 12 as follows:

For the treatment of a patient suffering from renal failure, there have been proposed various blood purifying methods in which blood is taken out from the body of the patient to be purified and is returned into the body. To purify the blood, hemodialyzers which accommodate a ~~translucent~~ porous membrane (hereinafter also referred to as "dialysis membrane") such as a hollow yarn cellulose membrane, polyacrylonitrile membrane or polysulfone membrane in the housing are generally used. The purification method to be employed differs according to the state of the disease and the conditions of a patient.

Please amend the paragraph commencing at page 1 line 22 as follows:

For example, in the case of hemodialysis (HD), blood and a dialysis fluid are contacted with each other through the dialysis membrane of a hemodialyzer to remove urotoxin such as urea and

uric acid accumulated in the blood of a patient by the movement of substances caused by diffusion. In the case of hemofiltration (HF), water, body wastes and toxins contained in the blood are removed by filtration through holes open in a ~~translucent~~ porous membrane.

Please amend the paragraph commencing at page 7 line 17 as follows:

FIG. 2 is a schematic diagram of a hemodiafiltration apparatus utilizing ~~polyfunctional~~ multifunctional filtration control means according to an example of the present invention.

Please amend the paragraph commencing at page 13 line 22 as follows:

In a mechanism in which the filtration/back-filtration fluid supply means and the water removing and fluid discharge means are separate from each other, when the water removing and fluid discharge means is activated independently, the removal of water is carried out independently regardless of the filtration/back-filtration pattern. When the apparatus comprises ~~polyfunctional~~ multifunctional filtration control means which serves as two fluid supply means, the fluid supply rate in the fluid discharge direction (normal direction) of the control means is increased by the water

removing rate, whereby the removal of water is carried out independently regardless of the filtration/back-filtration pattern.

Please amend the paragraph commencing at page 15 line 22 as follows:

In the single-needle HDF apparatus having ~~polyfunctional~~ multifunctional filtration control means, when the amount of a fluid discharged from a dialysis fluid circuit independently of delivery means for discharging a dialysis fluid is taken as the amount of a fluid discharged by a pump, this amount of the fluid discharged by the pump is controlled to become the sum of the amount of the removed water flowing out from the blood side circuit to the dialysis fluid side circuit by the above water removing step and the amount of filtration (equal to the amount of back-filtration or the amount of the substitution fluid) flowing out from the blood circuit to the dialysis fluid circuit by the above filtration operation. Also in the single-needle HDF apparatus having no ~~polyfunctional~~ multifunctional filtration control means, the amount of the fluid discharged by the pump may be used as a term which means the total of the amount of filtration and the amount of the removed water.

Please amend the paragraph commencing at page 24 line 3 as follows:

Hereinafter, one embodiment mode of the present invention will be described with reference to the accompanying drawings. FIG. 1 is a schematic diagram of the whole hemodiafiltration apparatus of the present invention. The hemodiafiltration apparatus comprises a hemodialyzer 8 for purifying blood by contacting blood with a dialysis fluid through a ~~translucent~~ porous membrane, a first blood circuit 10 having a blood pump P1 for introducing the blood taken out from a living body 9 into the dialyzer, a second blood circuit 11 having means for introducing the blood flowing out from the hemodialyzer into the living body, a dialysis fluid supply circuit 12 having a dialysis fluid supply pump P2 for introducing a dialysis fluid into the dialyzer 8, and a dialysis fluid discharge circuit 13 having a dialysis fluid discharge pump P3 for discharging the dialysis fluid flowing out from the hemodialyzer. A one puncture needle 17 communicates with the first blood circuit 10 and second blood circuit 11 through the junction portion of the needle 18. To achieve improved purification of the dialysis fluid, an endotoxin filter 16 is desirably provided in the dialysis fluid supply circuit 12 on the upstream side of the hemodialyzer 8.

Please amend the paragraph commencing at page 26 line 17 as follows:

In an example shown in FIG. 2, filtration/back-filtration are controlled by the ~~polyfunctional~~ multifunctional filtration control means which can turn in normal and opposite directions and is provided in the bypass line of the dialysis fluid discharge line. That is, when the ~~polyfunctional~~ multifunctional filtration control means P6 is turned in the same direction as that of the dialysis fluid discharge pump P3, water is removed by filtration and when the ~~polyfunctional~~ multifunctional filtration control means P6 is turned in a direction opposite to that of the dialysis fluid discharge pump P3, the substitution fluid is injected by back-filtration.

Please amend the paragraph commencing at page 27 line 3 as follows:

The ~~polyfunctional~~ multifunctional filtration control means may be installed in the bypass line of the dialysis fluid supply line.

Please amend the paragraph commencing at page 27 line 5 as follows:

FIG. 3 is a block diagram showing the construction of an embodiment of the hemodiafiltration apparatus of the present invention. The hemodiafiltration apparatus 1 of the embodiment shown in FIG. 3

includes a dialysis working device 2, a control unit 3 for controlling the operation and processing of the dialysis working device, an input unit 4 for inputting instructions/conditions and operation, a display unit 5 for displaying an input state and control mechanism, and a working device monitor 6 showing the operation state of the control unit. Transmission system 7 connects the control unit to the monitor 6, input unit 4, and as shown, indirectly to the other components.